

Louisiana

Environmental Education

S Y M P O S I U M



WATER SHEDS

FROM MY BACK YARD TO THE OCEAN

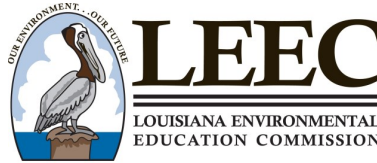
February 21-22, 2014

Shreveport Convention Center

Presented by:



LouisianaEnvironmentalEducationCommission



Dear Friends and Colleagues,

The Louisiana Environmental Education Association (LEEA) and the Louisiana Environmental Education Commission (LEEC) extend a warm welcome to our 17th Annual Symposium! We are delighted that you have chosen to attend and believe you find this opportunity to be filled with valuable experiences. Environmental literacy and advocacy must be on the leading edge of every action that impacts our environment. Accurate understanding of environmental impacts is key to making informed decisions as we encounter and adapt to the environmental changes and challenges we currently, and will in the future, face in Louisiana.

This year's program provides a wealth of information across many topics that affect our state. You will find the latest research findings and ways in which we can all be proactive in disseminating information that is critical to preventing and lessening negative environmental impacts. We are especially excited to have three outstanding additions to the Symposium:

- **Dr. Kevin Baer**, Keynote Speaker, University of Louisiana at Monroe, will provide research data he has acquired while studying environmental toxicology.
- **Lieutenant General Russel Honoré**, who has been credited with being the driving force behind New Orleans recovery efforts, will share environmental leadership strategies.
- **Playmakers of Baton Rouge**, a highly successful children's theatre troupe, will present *Zoe's Watershed Adventure*, sponsored by LEEC, to showcase the environmental play they will be performing throughout Louisiana. As you can see there is something for everyone!

Of course, one of the best outcomes of this event is networking! We have participants attending from across the state who have expertise in a broad range of areas—just think of the endless possibilities to share information! What a way to "pass a good time!" Many thanks to our participants, presenters, and exhibitors for making the Symposium a priority! We appreciate what each of you do every day to practice good stewardship of Earth's resources and help others better understand its importance. You are the heart of environmental education! Thanks for all you do for Louisiana!

Sincerely,

Brenda Nixon
Chair, Louisiana Environmental Education Commission

2014 Louisiana Environmental Education Commission

BESE

Judith Miranti, Ph.D.

Environmental Advocacy

Jonathan Dearbone

LA Science Teachers Association

Brenda Nixon, Ph.D.

Board of Regents

Nancy Rabalais, Ph.D.

Environmental Advocacy

Brenda Walkenhorst

Local Government

Jason Barnes

LA Department of Agriculture & Forestry

Wade Dubea

Environmental Scientist

Deepak Bhatnagar

LSU Agricultural Center

Mindy Brooks

LA Department of Education

Ann Wilson

Industry

Dean Blackett

Southern University

Leodrey Williams, Ph.D.

LA Department of Environmental Quality

Vladimir A. Appeaning, Ph.D.

LA Environmental Ed. Association (Listed by Congressional Districts)

District 1 — Dinah Maygarden

District 2 — Jennifer Roberts

District 3 — Cole Ruckstuhl

District 4 — Connie Conner

District 5 — Melanie Dupre

District 6 — Dianne Lindstedt

At Large — Heather Egger

LEEC Coordinator

Venise Ortego

LA Department of Health & Hospitals

Gary Balsamo, DVM

LEEC Assistant Coordinator

Thomas Gresham

LA Department of Natural Resources

Kelley Templet

LA Department of Wildlife & Fisheries

Angela Capello

GUEST Speaker



See First, Understand First, Act First: Leadership and Preparedness in the 21st Century

10:15 a.m. Saturday, February 22, 2014

Lt. General Russel L. Honoré, U.S. Army (Ret.) will address the attendees of the 17th Annual Louisiana Environmental Education Symposium on Saturday, February 22, 2014 at the Shreveport Convention Center. The subject of General Honoré's presentation is environmental leadership.

Honoré is a native of Lakeland, Louisiana. He was commissioned a Second Lieutenant of Infantry and awarded a Bachelor of Science degree in Vocational

Agriculture upon graduation from Southern University in 1971. He holds a Master of Arts in Human Resources from Troy State University as well as an Honorary Doctorate in Public Administration from Southern University, an Honorary Doctorate in Laws from Stillman College, and an Honorary Doctorate in Humane Letters from Stillman College.

General Honoré is perhaps best known for coordinating the Army's relief effort in New Orleans following Hurricane Katrina in 2005. Following the experience, Honoré vowed to foster a "culture of preparedness," and to improve the response of emergency services to future disasters.

Since his retirement from the U.S. Army, General Honoré has become a strong supporter of the importance of education, having helped to establish the Honoré Center for Undergraduate Student Achievement (CUSA) at the Southern University and A&M College System, which has the twin goals of reversing the trend of fewer African American males graduating from college, and increasing the number of male certified classroom teachers in urban settings.

His passion for the environment is seen through his work with the Green Army, a group he established to inform the public about environmental issues. He believes that it is essential to empower citizens to take well-informed actions to improve our environment.

**Thanks to our sponsor
Shell Exploration & Production Company.**



Hosted by:



LEEC
LOUISIANA ENVIRONMENTAL
EDUCATION COMMISSION



SYMPOSIUM

Agenda

Friday, February 21, 2014

Day-long Short Courses and Tours. Course times vary. See Short Courses and Tours listing below.

4:00-5:00 p.m.	LEEC Commission Meeting
5:00 p.m.-8:00 p.m.	Registration
6:00 p.m.-8:00 p.m.	Social/Mixer Meet the Exhibitors
7:45 p.m.-8:15 p.m.	<i>Zoe's Watershed Adventure</i> by Playmakers of Baton Rouge

Saturday, February 22, 2014

7:00 a.m.-8:00 a.m.	Registration/Continental Breakfast—Second Floor Lobby
7:30 a.m.-8:00 a.m.	LEEA Meeting (all attendees invited) —Ballroom C
8:00 a.m.-9:50 a.m.	Concurrent Sessions—Rooms 201-205
9:50 a.m.-10:15 a.m.	Exhibitor Showcase/Refreshments—Second Floor Lobby
10:15 a.m.-10:55 a.m.	Guest Speaker, Lt. Gen. Russel Honoré—Ballroom D
11:00 a.m.-12:50 p.m.	Concurrent Sessions—201-205
12:50 p.m.	Lunch/Keynote/Grand Door Prize—Ballroom C

Friday Short Course Sessions

8:00 a.m.-4:30 p.m. Grade Levels: K-12	From A to Chimpanzee WORKSHOP & TOUR Presenters: Andrea Falcetto, Education Specialist, Chimp Haven Amy Fultz, Director of Behavior, Research & Education, Chimp Haven
8:00 a.m.-3:00 p.m. Grade Levels: K-12	Bayou Pierre Watershed TOUR Presenters: Jon Soul, Outdoor Education Coordinator, Montessori School for Shreveport Dionne Procell, Caddo Magnet High School Michele McKee, Programs & Education Grants Manager, Sci-Port: Louisiana's Science Center
8:00 a.m.-3:30 p.m. Grade Levels: 5-12	The Bear Necessities WORKSHOP Presenters: Carrie Salyers, Education Outreach Coordinator, LDWF Natalie McElyea, Youth Wetlands Program Extension Associate, LSU AgCenter
7:30 a.m.-4:00 p.m. Grade Levels: K-12	Learning with Nature WORKSHOP Presenters: Terri Jacobson, Refuge Ranger, Red River National Wildlife Refuge Chauntal Stricklan, Refuge Volunteer & Certified Interpretive Guide

KEYNOTE

Speaker

Kevin Neal Baer, PhD is the head of the University of Louisiana Monroe Toxicology Department and an expert on environmental pollution. He is a recognized authority on multiple public safety issues, including: mercury in fish, insecticide and insect repellent toxicity, and water quality.

Baer began his academic career at Northeast Louisiana University in 1978 and earned his PhD in Pharmacology and Toxicology in 1988. Before returning to the university, he worked as a research toxicologist at Haskell Laboratory for Toxicology and Industrial Medicine from 1989-1994. He currently teaches seven undergraduate and five graduate courses on pharmacology and toxicology at ULM.

Among the most recent research grant and fellowship projects on which Dr. Baer served as lead investigator are:

- Are There Unintended Toxic Effects on Resident Biota in Wetlands Used for Water Quality Management?
- Watershed Monitoring in the Ouachita River Basin
- Mississippi River Basin Initiative (MRBI) Watershed Water Quality Monitoring Project in Bayou Lafourche Tributaries
- Mississippi River Basin Initiative (MRBI) Watershed Water Quality Monitoring Project in Turkey Creek Tributaries

He is Associate Editor for the journal Drug and Chemical Toxicology , has authored or co-authored dozens of studies for scientific journals throughout his career, and is a frequent presenter at numerous toxicology and pharmacology symposia.

Doctor Baer is the father of three children and resides with his wife in Monroe, Louisiana.



Baer identifies a shellfish for a student at ULM Explorers Camp.
Photo copyright ulm.edu

Keep up with us! **Join our weekly eNewsletter list.**

VENISE ORTEGO *Coordinator*
(337) 948-0255 vortego@wlf.la.gov

THOMAS GRESHAM *Assistant Coordinator*
(225) 765-0124 tgresham@wlf.la.gov

Subscribe or unsubscribe to our weekly enews
online at: www.wlf.la.gov/eec



LouisianaEnvironmentalEducationCommission

Grant Recipient Showcase

Warwick Allen — “Latitudinal gradients in tritrophic interactions between arthropod herbivores of *Phragmites australis* and their natural enemies”

This project focuses on how the strength of biotic interactions among multiple trophic levels (plant-herbivore-commensal-natural enemy) may vary on a continental scale, and what implications this may have for invasion success. The model study system includes native and invasive genotypes of common reed (*Phragmites australis*).

Ganesh Bhattarai — “Test of enemy release hypothesis with native and invasive genotypes of *Phragmites australis*”

The reduced enemy pressure in invasive species in the introduced range compared to co-occurring native species has been considered as one of the primary causes of biological invasion. We tested this hypothesis with native and exotic genotypes of common reed, *Phragmites australis*. Feeding damage by fall armyworm (Spodoptera frugiperda) was substantially lower in exotic plants than the natives. These results suggest that escape from natural enemies may have contributed to the invasiveness of the Eurasian genotype in North America.

Anthony Chow — “Effects of Latitude on the Competitive Ability of Native and Invasive Genotypes of *Phragmites australis*”

An examination of the competitive ability over latitude of both native and invasive haplotypes of *P. australis* against a common co-occurring wetland species in *Spartina alterniflora*. The Gulf Coast haplotype of *P. australis* is also examined in terms of its competitive ability relative to that of the native and invasive haplotypes.

Ivan Prock— “Recent Historical Sediment Supply and Distribution to the Louisiana Southeast Coastal Plain”

A study of recent historical sediment supply and distribution to the Louisiana southeast coastal plain; the impacts of weather and river engineering on this supply; the effects projected climate change will have on sediment supplies; and estimating sediment requirements to mitigate relative sea level rise.

Zhen Xu — “Rapid Field Estimation of Biochemical Oxygen Demand with Chlorophyll-a Fluorescence ”

Rapid field estimation of biochemical oxygen demand (BOD) can be very useful for cost-effective monitoring of urban water quality. To develop a simple BOD prediction model, this study conducted in-situ measurements on chlorophyll a fluorescence and laboratory BOD of waters in the LSU University Lake from October 2012 to September 2013, and found a close association of BOD with chlorophyll a fluorescence.

POSTERS ONLY

Sandra Galeano— “Understanding How Coloration and Body Size in the Poison Dart Frog *Oophaga pumilio* Influence Aggressive Behaviors and the Strength of Species Interactions”

Sarah Giltz— “Effects of Oil, Dispersant, Acidification and Their Interactions to the Survival and Condition of Blue Crab Zoea Larvae”

Buy a Plate to Educate!

Purchase Louisiana’s “ENVIRONMENTAL EDUCATION PLATE” to Educate Louisiana’s Citizens about our Environment. Your purchase helps to fund Environmental Education grants for educators and students, the annual Environmental Education State Symposium, and other programs designed to further environmental knowledge and stewardship in Louisiana.

Order by phone: Call the Office of Motor Vehicles at 1-225-925-6146. Have the number of your current license plate. Ask for the Environmental Education Plate and obtain a quote, which will include a \$26* fee.

Mail your check to:

Office of Motor Vehicles
Attention Special Plate Unit
P.O. Box 64886
Baton Rouge, LA 70896

Your plate will arrive in about one week.

*\$25 goes directly to our Environmental Education programs!



Order your plate today!
For More Information visit:
www.expresslane.org

Order from your car dealer: You can request an Environmental Education Plate from your car dealership upon the purchase of a new/used vehicle.

8:00 a.m. - 8:50 a.m. Concurrent Sessions

Simple, Fun PK-4 EE Activities for Young Learners!

Participate in PK-4 learning activities that pique young learners' curiosities and encourage environmental stewardship! Receive classroom-ready handouts with learning station ideas! Build critical skills through EE using water conservation, bottle biology, mealworms, composting, habitats, and more! Door Prizes compliments of the LSU/SU Regional Collaborative!

Brenda Nixon, Cain Center for STEM Literacy/Louisiana State University

Hands-On Workshop

Grades: K-4

Room 201

WETSHOP – A Coastal Awareness Institute

Want a sneak peek? Open to all science/history teachers, WETSHOP provides 55 hours of professional development and numerous wetlands classroom resources. Unearth the extensive bounty of our coast with a week-long wetland workshop that introduces educators to wetland loss, the importance of Louisiana's shores, and restoration efforts.

MattiLynn Dantin, Louisiana Department of Wildlife & Fisheries

Exemplary Program

Grade: K-12

Room 202

What a Lot of Rot! Using Compost to Teach Life and Environmental Science

Composting provides many benefits by promoting natural decomposition of organic wastes such as food scraps and by improving soil quality. By examining the composting process students can learn about decomposition, nutrient cycling, and environmental stewardship. We will explore kid-friendly activities that can be used inside or outside of the classroom.

Maud Walsh, School of Plant, Environmental & Soil Sciences, Louisiana State University

Hands-On Workshop

Grades: K-12

Room 203

Exploring Water

One of our most valuable natural resources in agriculture is water. This session will cover the importance of water to life, water quality, water quantity and agricultural use of water. Participants will construct an aquifer in a cup and create a water cycle bracelet.

Lynda Danos, Louisiana Agriculture in the Classroom

Hands-On Workshop

Grade: K-12

Room 204

It's All Downstream from Here!

Learn how to start a debris removal project to build a more sustainable school community. Engage students in math and science to teach a "hands on and higher level thinking project" that meets math and science standards. Participants will be given lesson plans for grades K-12 that show STEM and data collection procedures that encourage environmental knowledge about how trash in our waterways affects the Gulf Coast.

Sandra Saye Fouquetteau, Upper Pointe Coupee Elementary School

Hands-On Workshop

Grade: K-12

Room 205

9:00 AM - 9:50 AM Concurrent Sessions

A Floor Map to Understanding Coastal Wetlands

This session uses a floor map to talk about natural and man-made changes to our coastal salt marshes. Activity will show how changes to the way water flows through wetlands can have widespread effects on land loss rates, community structure, and water quality. Activity can be recreated in the classroom.

Murt Conover, Louisiana Universities Marine Consortium (LUMCON)

Hands-On Workshop

Grades: K-8

Room 201

Backwater Blues: Webbed Feet, Long Legs, and Other Aquatic Adaptations

Learn how Swamper, the swamp rabbit, copes with floods in the bottomland hardwood forest.

Participate in an activity called "Water Address." Identify plants, animals and their habitats by analyzing clues that describe water-related adaptations of aquatic and terrestrial organisms.

Amy Ouchley, Naturalist, Educator and Author

Hands-On Workshop

Grade: 5-8

Room 202

Understanding the Chemistry of Air

Discover unique and creative ways of using Lego bricks to build molecules and show reactions. Get your students (of all grades) to interact while learning about air pollution. Session includes a walk-through demonstration of activities and techniques to make lessons enjoyable for any grade (K-12).

Elisabeth Feld and Cholena Ren, Graduate Students, LSU Superfund Research Center

Hands-On Workshop, Lesson Demonstration

Grades: K-12

Room 203

Creating a Local Water Resources Curriculum

Take a look at the ongoing development of a localized water resources curriculum in the Baton Rouge area. Discuss the potential for a statewide program for middle and high school students with an emphasis on scientific literacy, modeling and management of water resources "in your back yard."

Matthew Reonas, Louisiana Office of Conservation

Lesson Demonstration, Exemplary Program

Grade: 5-12

Room 204

All Rivers Lead to the Ocean; a Classroom Study

Is it true that our rivers are major polluters of the Gulf of Mexico? Learn how to perform a student centered comparison study of debris found in your local waterways and the Louisiana coastline, and watch in amazement as your students take ownership of your local waterways. Discuss turning this classroom project into an eye-opening science fair exhibit.

Diedre Young, Ridgway Christian School

Randy Harris, Student, Ridgway Christian School

Lesson Demonstration

Grade: 9-12

Room 205

:: 9:50-10:15 a.m

Break in the Exhibit Hall

Second Floor Lobby::

::10:15-10:55 a.m.

Leadership Presentation by Lt. Gen. Russel L. Honoré

Ballroom D::

11:00 a.m. - 11:50 a.m. Concurrent Sessions

Bringing the Beach to Your Classroom

How do you teach early learners about the beach when they have never seen one? Learn techniques and lesson ideas to bring the beach and estuaries to your classroom. Enjoy all the fun without the sunburn!

Monica Pasos, Audubon Zoo

Lesson Demonstration

Grade: K-4

Room 201

A Tour of a Watershed

Participants will use clues and data they collect to solve mysteries about locations within a watershed. This activity is hands-on and designed to teach students how to collect data and use that data to answer questions. Activity will provide insight about how we are all connected to our water resources.

Murt Conover, Louisiana Universities Marine Consortium (LUMCON)

Hands-On Workshop

Grades: 5-12

Room 202

Hydrogen-Powered Cars

Explore renewable energy, fuel cell efficiency, electrolysis and Ohm's law while creating hydrogen-powered cars. If time allows, solar energy in reference to producing hydrogen will also be explored. (This program is one of the numerous Environmental Education programs offered by Sci-Port: Louisiana's Science Center.)

Alan Brown, Sci-Port: Louisiana's Science Center

Hands-On Workshop

Grades: 5-12

Room 203

Uninvited Visitors: Introducing Invasive Species

Introducing invasive species in your classroom engages students in a real ecological problem that is interesting and meaningful. Learn about invasives in Louisiana, their ecological impacts, how they spread and what makes them such a nuisance. Work with at least one activity and become aware of other tools.

Dianne Lindstedt, Sea Grant, Louisiana State University

Hands-On Workshop, Lesson Demonstration

Grade: K-12

Room 204

Bench-Scale Micro Fodder System

Students explore the use of micro fodder to provide farmers with a means to supplement their poultry and livestock during winter or drought. Fodder is a highly nutritious feed (think sprouts) that minimizes the need for hydrocarbon fuel inputs and protects the watershed from pollution. Chemistry students are responsible for determining the physical/chemical needs of the animals and fodder, and physics students are charged with building the bench-scale machine.

Katy Turnbaugh, Eureka Springs High School, Arkansas

N. Andress, K. Cash, E. Randolph, J. Alvarado, H. Comstock, M. McClung; Students, Eureka Springs High School, Arkansas

Lesson Demonstration

Grade: K-12

Room 205

12:00 p.m. - 12:50 p.m. Concurrent Sessions

Energy Bike Workshop

Teach young students about energy science and conservation. Through riding the Energy Bike, students learn about energy efficiency by experiencing the difference in physical effort needed to power incandescent, CFL, and LED light bulbs. Also discuss renewable, clean energy sources. Alliance for Affordable Energy offers workshops free to public school teachers. Lessons meet GLE and the Next Generation Science Standards.

Julia Michaels, Alliance for Affordable Energy

Ivan Gill, PhD, University of New Orleans

Hands on Workshop

Grades: K-4

Room 201

Exemplary Program

Investigating Wetland Loss Using Free Mapping Tools

Students can pose their own questions and, through guided inquiry, investigate the answers using mapping and GIS tools available online. Math and science skills are practiced while gaining an understanding of what is happening to our coast. We will explore the tools and investigate a question together.

Dinah Maygarden, University of New Orleans

Lesson Demonstration

Grades: 5-12

Room 202

Native Fish in the Classroom

Connect your students to the outdoors and Louisiana's natural resources through this stewardship project. Students raise the native paddlefish from eggs to fingerlings in their classroom nursery tank, then release the fingerlings to a pre-selected river habitat. This initiative is a must-do for 6 – 12 graders!

Angela Capello, Louisiana Department of Wildlife & Fisheries

Exemplary Program

Grade: 5-12

Room 203

From A to Chimpanzee

Did you know the National Chimpanzee Sanctuary is located in Northwest Louisiana? Learn about what we do and how your classroom can help! We will feature lessons about chimpanzee care at our sanctuary, conservation in the wild, and engage in an activity you can share with your students.

Andrea Falcetto, Chimp Haven, Inc.

Lesson Demonstration

Grade: K-12

Room 204

Bayou to Bay - Our Watershed Education Project Collaboration

Informal and formal, outdoor and indoor? Want to connect them all together? Find out about the education component of our Bayou to Bay Watershed Project and how we've connected outdoors, the science center and the formal classroom for a growing community collaboration that is changing kids' health and connection to their water and their watershed.

Michele McKee, Sci-Port: Louisiana's Science Center

Jon Soul, Bayou to Bay Watershed Project

Exemplary Program

Grades: K-12

Room 205

:: 12:50 p.m.

Keynote/Luncheon

Ballroom C ::

2013 GRANT RECIPIENTS

UNIVERSITY GRANTS

Warwick Allen	<i>Louisiana State University</i>
Ganesh Bhattarai	<i>Louisiana State University</i>
Anthony Chow	<i>Louisiana State University</i>
Sandra Galeano	<i>Louisiana State University</i>
Sarah Giltz	<i>Tulane University</i>
Ivan Prock	<i>Louisiana State University</i>
Zhen Xu	<i>Louisiana State University</i>

EDUCATOR GRANTS

Julie Fink	<i>The Runnels School</i>
Sandra Saye Fouquetteau	<i>Upper Point Coupee Elementary</i>
Tera LaPrarie	<i>Alexandria Middle Magnet School</i>
Janell Simpson	<i>Patrick F. Taylor Science & Tech. Academy</i>

PROFESSIONAL DEVELOPMENT GRANTS

Jennifer "Murt" Conover	<i>Louisiana Universities Marine Consortium</i>
Ann Findley	<i>University of Louisiana at Monroe</i>
Diane Madden	<i>Louisiana Tech University/SciTEC</i>
Amy Ouchley	<i>Friends of Black Bayou, Inc.</i>

SCHOOL SUSTAINABILITY GRANTS

Glenita Anderson	<i>Central Math & Science Magnet Elem., AR</i>
Lucy Bartholomee	<i>Northstar School, TX</i>
Pam Baxter	<i>Sulphur Rock Math & Science Magnet, AR</i>
Mary Brinkman	<i>Sci-Tech Preparatory School, TX</i>
Christy Cope	<i>Haskell Middle School/High School, OK</i>
Sharon Hatfield	<i>Remington Elementary School, OK</i>
Susan Malone	<i>St. Paul's Episcopal School, LA</i>
Terry Simmons	<i>Ashdown Junior High School, AR</i>
Dana Smith	<i>Fayetteville High School, AR</i>
Jonathan Ward	<i>Sonora Middle School, AR</i>

SUSTAINABILITY INITIATIVE GRANTS

Kelly Boyter	<i>Airline High School, LA</i>
Terri Colclough	<i>Academic Distinction Fund, LA</i>
Robert Doyle	<i>Baylor Univ. Ctr. for Reservoir & Aquatic Sys., TX</i>
Barbara Garrity	<i>Environmental Ed. Assoc. of New Mexico, NM</i>
Robert Thomas	<i>Loyola Univ. Ctr. for Environmental Comm., LA</i>
Kristina Turnbaugh	<i>Eureka Springs High School, AR</i>
Kim Van Scoy	<i>University of the Ozarks, AR</i>

LEEC awarded a total of \$98,597 to grant recipients in 2013. Many thanks to EPA for co-funding these worthy endeavors.

Reuse it!

Your symposium bag is made from recycled PET, a plastic commonly used to make drink bottles. It folds easily into its own 4-by-5-inch pocket and fits neatly into your pocket, purse or glove compartment.



Environmental Awareness Art & Language Arts

The LEEC and Alcoa Foundation co-sponsored the 11th Annual Environmental Awareness Art & Language Arts Contest: Louisiana's Natural Resources: What's Important to You?



THANK YOU to Alcoa Foundation, LEEC members, judges, and others for helping make the 11th Annual Environmental Awareness Art and Language Arts contest a HUGE SUCCESS! Hundreds of entries were received for the 2013 contest, and because of the environmental awareness focus, many teachers took advantage and used this as a classroom learning activity.

The LEEC honored the winners last June at a reception in the Governor's Mansion. The students' families, teachers, and principals were invited to attend the reception. LEEC members and Alcoa Foundation representatives attended the event as well.

All winners received cash prizes and winning entries were used to create the 2014 calendar. Top winners had their works featured on billboards and newspaper ads in their communities. Thank you, Alcoa, for making all this possible! **CONGRATULATIONS TO OUR 2013 WINNERS & THEIR TEACHERS!**

MARK YOUR CALENDAR FOR THE 2015 12TH ANNUAL ENVIRONMENTAL AWARENESS ART & LANGUAGE ARTS CONTEST!

Theme: Watersheds: From My Back Yard to the Ocean

Deadline: Friday, April 25, 2014

Contest is open to all children in Louisiana between 5-18 years. Submission forms are available: www.wlf.la.gov/eec

2013 CONTEST WINNERS

<u>ART WINNERS</u>			<u>LANGUAGE ART WINNERS</u>	
GROUP 1 5-7 yrs	1 st	Noah Guidroz Port Barre Elementary	Emilee King	Chesbrough Elementary
	2 nd	Levi Graham Chesbrough Elementary		
	3 rd	Noah Katner Lusher Charter School		
GROUP 2 8-10 yrs	1 st	Ashini Modi South Highland Magnet	Lakin Graham	Chesbrough Elementary
	2 nd	Anna Johnson Isidore Newman School	Owen Brouillette	Homeschooled
	3 rd	Ethan Guidroz Lockport Upper Elementary	Lizzie Robert	Isidore Newman School
GROUP 3 11-13 yrs	1 st	Trenece Robertson Port Barre High School	Paycen Brouillette	Homeschooled
	2 nd	Kyle Miller S.P. Arnett Middle School	Clay Knight	Lockport Middle School
	3 rd	Christian Torres Curtis Elementary	Shayley Naquin	St. Gregory Catholic School
GROUP 4 14-18 yrs	1 st	Tuyen Dang Helen Cox High School	Tara Guy	Mount Hermon School
	2 nd	Brenden Ledet Bayou Blue Middle School	Brook Lawson	Grace King High School
	3 rd	Victoria-Duyen Chu Helen Cox High School	Maddy McDade	DeRidder Jr. High School

EXHIBITOR DIRECTORY

4-H Youth Wetlands Program

Ashley Mullens, awmullens@agcenter.lsu.edu

Audubon Zoo

Monica Pasos, mpasos@auduboninstitute.org

Coastal Wetlands Planning, Protection and Restoration Act (CWPPRA)

Susan Testroet-Bergeron,
bergerons@usgs.gov

Keep Louisiana Beautiful

Sarah Kelley,
skelley@keeplouisianabeautiful.org

Louisiana Agriculture in the Classroom

Lynda Danos, lyndad@lfbf.org

Louisiana Department of Agriculture & Forestry/Office of Soil & Water Conservation

Joey Breau, joey_b@ldaf.state.la.us

Louisiana Department of Environmental Quality

Linda Hardy, linda.hardy@la.gov

Louisiana Department of Environmental Quality/Water Permits and Nonpoint Source Program

Al Hindrichs, al.hindrichs@la.gov

Louisiana Department of Wildlife & Fisheries

Angela Capello, acapello@wlf.la.gov

Louisiana Department of Wildlife & Fisheries/ Education Outreach

Carrie Salyers, csalyers@wlf.la.gov

Louisiana Environmental Education Association

Amy Ouchley, biouchley@yahoo.com

Louisiana Environmental Education Commission

Venise Ortego, vortego@wlf.la.gov

Louisiana Fur Advisory Council

Quentin Morris, mudplodder@hotmail.com

Louisiana Office of Conservation

Matthew Reonas, matthew.reonas@la.gov

Louisiana Science Teachers Association

Shavonne Garner-Price,
sprice@lincolnschools.org

Louisiana Universities Marine Consortium (LUMCON)

Murt Conover, mconover@lumcon.edu

LSU Health Shreveport, Health Sciences Library

David Duggar, ddugga@lsuhsc.edu

Red River National Wildlife Refuge

Terri Jacobson, terri_jacobson@fws.gov

Sci-Port: Louisiana's Science Center

Tracy Crow, tcrow@sciport.org

U.S. Department of Agriculture, Agricultural Research Service

Deepak Bhatnagar
deepak.bhatnagar@ars.usda.gov

U.S. Army Corps of Engineers J. Bennett Johnston Waterway Regional Visitor Center

Suzanne Odom,
donna.s.odom@usace.army.mil

THANK YOU *Exhibitors!*

We all greatly appreciate the time, effort, information, and FREEBIES that you provide to our participants!

PRESENTER DIRECTORY

Alan Brown, abrown@sciport.org
Sci-Port: Louisiana's Science Center

Angela Capello, acapello@wlf.la.gov
Louisiana Department of Wildlife & Fisheries

Murt Conover, mconover@lumcon.edu
Louisiana Universities Marine Consortium
(LUMCON)

Lynda Danos, lyndad@lfbf.org
Louisiana Agriculture in the Classroom

MattiLynn Dantin, mdantin@wlf.la.gov
Louisiana Department of Wildlife & Fisheries

Andrea Falcetto, afalcetto@chimphaven.org
Chimp Haven, Inc.

Elisabeth Feld, efeld1@tigers.lsu.edu
Graduate Student, Louisiana State University/
LSU Superfund Research Center

Sandra Saye Foucqueteau,
sandra.saye@pcpsb.net
Upper Pointe Coupee Elementary

Terri Jacobson, terri_jacobson@fws.gov
Red River National Wildlife Refuge

Dianne Lindstedt, dlindst@lsu.edu
Sea Grant, Louisiana State University

Dinah Maygarden, dmaygard@uno.edu
University of New Orleans

Michele McKee, mmckee@sciport.org
Sci-Port: Louisiana's Science Center

Julia Michaels, julia@all4energy.org
Alliance for Affordable Energy

Brenda Nixon, bnixon@lsu.edu
Cain Center for STEM Literacy/Louisiana State
University

Amy Ouchley, biouchley@yahoo.com
Naturalist, Environmental Educator, Author

Monica Pasos, mpasos@auduboninstitute.org
Audubon Zoo

Matthew Reonas, matthew.reonas@la.gov
Louisiana Office of Conservation

Carrie Salyers, csalyers@wlf.la.gov
Louisiana Department of Wildlife & Fisheries

Jon Soul, jonksoul@gmail.com
Bayou to Bay Watershed Project

Katy Turnbaugh, kturnbaugh@es.k12.ar.us
Eureka Springs High School

Maud Walsh, evwals@lsu.edu
School of Plant, Environmental & Soil Sciences,
Louisiana State University

Diedre Young, vespr_theorist@yahoo.com
Ridgway Christian High School

Qualify for the GRAND DOOR
PRIZE by turning in your FINAL
EVALUATION at the luncheon!



Join us on Facebook!

Please "like" our page and share with your friends:
facebook.com/LouisianaEnvironmentalEducationCommission

SYMPOSIUM NOTES

THE LEEC NEEDS YOUR INPUT!

**PLEASE TURN IN YOUR EVALUATIONS AFTER EACH SESSION AND
HAND IN YOUR FINAL SYMPOSIUM EVALUATION AT THE LUNCHEON!**

2014 Symposium Planner/CLU Organizer

DATE	TIME	SHORT COURSE TITLE	Presenter Initials
Friday, FEB 21			

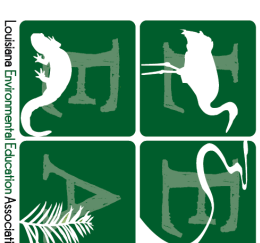
DATE	TIME	SESSION TITLE	Presenter Initials
S A T U R D A Y FEB 22	7:00 AM- 8:00 AM	REGISTRATION / LEEA MEETING / EXHIBIT HALL OPENS	
	8:00 AM- 8:50 AM		
	9:00 AM- 9:50 AM		
	9:50 AM- 10:15 AM	EXHIBITOR SHOWCASE	
	10:15 AM- 10:55 AM	LEADERSHIP PRESENTATION	
	11:00 AM- 11:50 AM		
	12:00 PM- 12:50 PM		
	12:50 PM	KEYNOTE ADDRESS / LUNCHEON	

This planner is provided for participants who need documentation of attended sessions. Participants must request that the presenter initial this form at the end of each session. CLUs are not awarded for visiting the exhibit hall. Friday Short Course sessions are set at 7 CLUs. Saturday concurrent sessions, leadership presentation and the keynote address are set at a total of up to 6 CLUs for the day's events. *Districts have the option to accept this documentation.*

Certificate of Participation

is hereby granted to

for completion of _____ hours of
Professional Development received during



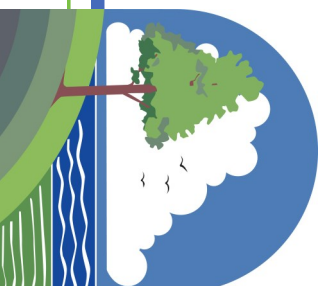
LOUISIANA ENVIRONMENTAL EDUCATION STATE SYMPOSIUM

OUR ENVIRONMENT . . . OUR FUTURE

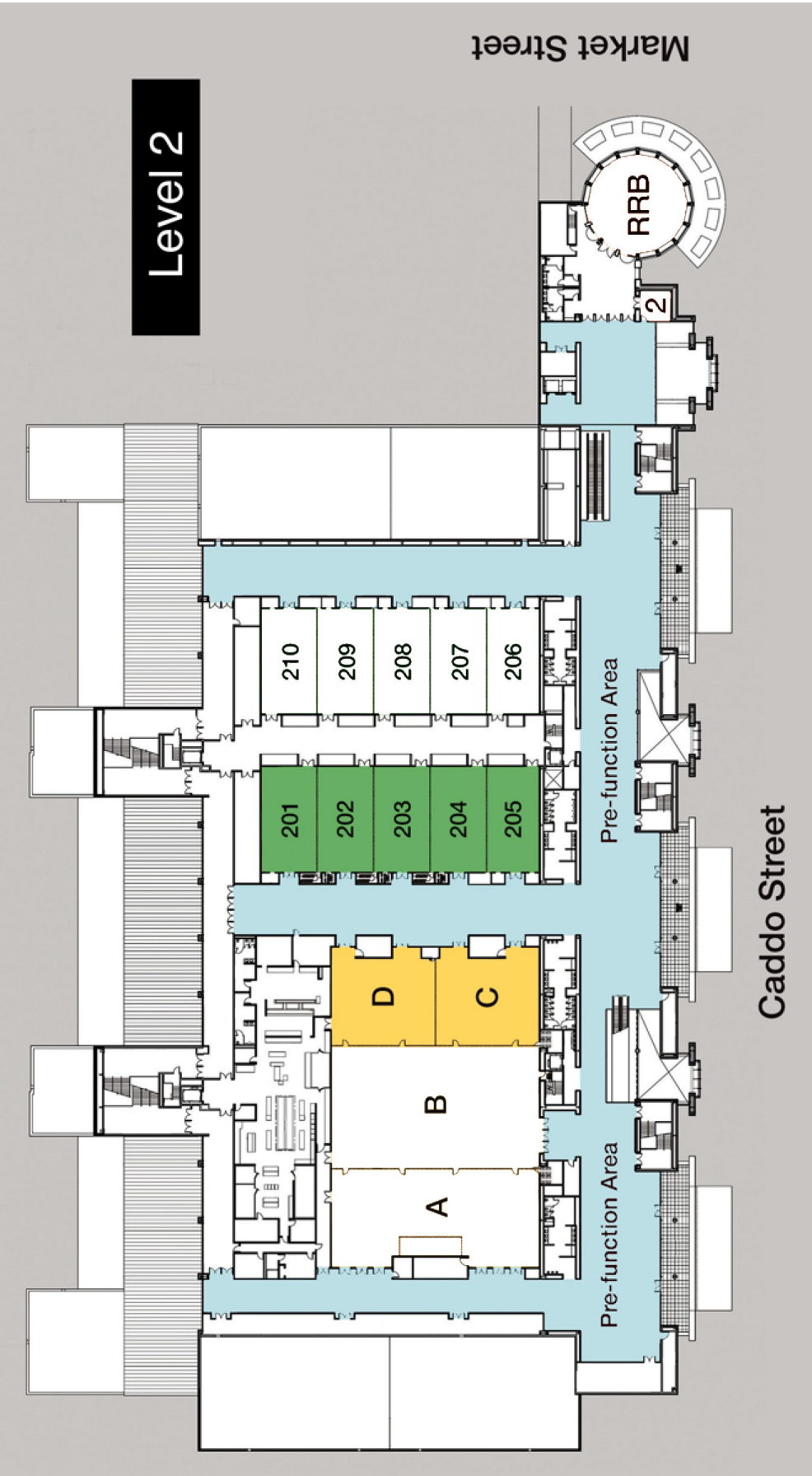
February 21-22, 2014

Brenda Nixon, Chair
Louisiana Environmental Education Commission

Amy Duchley, President
Louisiana Environmental Education Association



Shreveport Convention Center Floorplan



Bird's-Eye View of Concurrent Sessions – Saturday, February 22, 2014

	ROOM 201	ROOM 202	ROOM 203	ROOM 204	ROOM 205
8:00 AM – 8:50 AM	Simple, Fun PK-4 EE Activities for Young Learners! <u>Brenda Nixon, Ph.D.</u> Cain Center for STEM Literacy/ Louisiana State University	WETSHOP – A Coastal Awareness Institute <u>Mattilynn Dantin</u> Louisiana Department of Wildlife & Fisheries	What a Lot of Rot! Using Compost to Teach Life & Environmental Science <u>Maud Walsh</u> School of Plant, Environmental & Soil Sciences, Louisiana State University	Exploring Water <u>Lynda Danos</u> Louisiana Agriculture in the Classroom	It's All Downstream from Here <u>Sandra Saye Foucqueteau</u> Upper Pointe Coupee Elementary School
9:00 AM – 9:50 AM	A Floor Map to Understanding Coastal Wetlands <u>Murt Conover</u> LUMCON	Backwater Blues: Webbed Feet, Long Legs, & Other Aquatic Adaptations <u>Amy Ouchley</u> Naturalist, Educator & Author	Understanding the Chemistry of Air <u>Elisabeth Feld</u> <u>Cholena Ren</u> Graduate Students, LSU Superfund Research Center	Creating a Local Water Resources Curriculum <u>Matthew Reonas</u> Louisiana Office of Conservation	All Rivers Lead to the Ocean; a Classroom Study <u>Diedre Young</u> <u>Randy Harris, Student</u> Ridgway Christian School
9:50 AM – 10:15 AM EXHIBITOR SHOWCASE					
10:15-10:55 AM LEADERSHIP PRESENTATIONBALLROOM D					
11:00 AM – 11:50 AM	Bringing the Beach to Your Classroom <u>Monica Pasos</u> Audubon Zoo	A Tour of a Watershed <u>Murt Conover</u> LUMCON	Hydrogen-Powered Cars <u>Alan Brown</u> Sci-Port: Louisiana's Science Center	Uninvited Visitors: Introducing Invasive Species <u>Dianne Lindstedt</u> Sea Grant, Louisiana State University	Bench-Scale Micro Fodder System <u>Katy Turnbaugh & Students</u> Eureka Springs High School
12:00 PM – 12:50 PM	Energy Bike Workshop <u>Julia Michaels</u> Alliance for Affordable Energy <u>Ivan Gill, Ph.D.</u> University of New Orleans	Investigating Wetland Loss Using Free Mapping Tools <u>Dinah Maygarden</u> UNO	Native Fish in the Classroom <u>Angela Capello</u> Louisiana Department of Wildlife & Fisheries	From A to Chimpanzee <u>Andrea Falcetto</u> Chimp Haven, Inc.	Bayou to Bay - Our Watershed Education Project Collaboration <u>Michele McKee</u> Sci-Port: Louisiana's Science Ctr. <u>Jon Souil</u> Bayou to Bay Watershed Project
12:50 PM LUNCHEON / KEYNOTE ADDRESS					